



Delivering sustainable and resilient central facilities with integrated energy systems.



Stable, Reliable, Secure and Cost-Effective.

The goal is a self-sustaining, resilient system.

The external power grid is traditionally the greatest liability for any facility. As the demand for energy grows, costs continue to rise and utilities face increasing challenges to maintain system reliability. Facilities can reduce their reliance on the increasingly fragile utility grid and develop onsite electricity and thermal energy sources with an integrated energy system.

Engaging Honeywell to develop and manage your integrated energy system — including central plant facilities and renewable energy sources — will not

only save money and provide reliable energy, but will also improve facility sustainability. Honeywell has the capabilities and expertise to design, build, operate and maintain complex systems that generate electricity while producing thermal energy (steam, hot and chilled water). This approach reduces overall costs and GHG emissions. And it optimizes uptime by putting the control onsite where risk can be mitigated. We'll help make your facilities more efficient, resilient and sustainable — for a longer life with significant energy and cost savings.

A single source for streamlined development

Honeywell uses a holistic Integrated Energy Management (IEM) Process to improve energy efficiency, enhance energy security and decrease operational costs by managing cost and risk throughout the entire energy chain. This process utilizes and optimizes the following three energy infrastructure components:

- **Energy Assets:** High-efficiency equipment and optimized equipment operation; use of onsite generation (combined heat and power, peaking plants) and alternative fuels (biomass, photovoltaic); integration of existing onsite equipment and systems to provide operational redundancy and flexibility.
- **Energy Supply:** Optimization of the electric supply structure to reduce net energy costs by leveraging load control capabilities created with the assets listed above.
- **Active Demand:** Real-time integration of energy assets, energy supply structure and energy data via an Energy Management and Control System (EMCS), which supports data-centric decision-making, proactive solution development and automated control across the entire energy chain.



A cost-effective plan for energy efficiency

To further your cost reduction, we provide the financial know-how to find grants and other available incentives that offset capital expenses. Our relationships with leading financial institutions, tempered by years of successful project implementation, allow us to bring to bear the most favorable rates and terms. By leveraging our expertise in energy efficient building design and construction, Honeywell can develop plans that, when compared to traditional approaches, result in positive cash-flows through the life cycle of the facility. This often eliminates the need for upfront capital investment and reduces the impact on operating budgets.

A broad spectrum of experience, put to work for you

Honeywell is ready to help you meet your integrated energy goals. We have a rich heritage of industrial process control and understand both the building and central utility plant environment. Following are several examples of facilities where Honeywell has successfully delivered integrated energy solutions:

Federal Government — Developing comprehensive solutions using a dedicated team of professionals assures that projects come to successful conclusion. Honeywell can guide your facility to net zero, giving you added security, resilience and freedom from the uncertainties of the traditional power grid.

Health care — Assuring the availability of basic electricity, as well as hot and cold water, are crucial for health care facilities. Honeywell can provide that energy security with no upfront costs, while reducing overall operating expenses.

Education — Expanding the utilization and extending the life of the buildings on your campus is a great way to avoid dipping into endowments. Honeywell can help you achieve this and reduce your overall operating costs, allowing you to reinvest in the external-facing areas of the campus as well as other sustainability efforts.

Central utility plants are making their way into many other applications, such as airports, sea ports, prisons and other facilities where the economics of large-scale supply of these services make financial sense.

A complete package you can rely on

For years, Honeywell has been building a broad portfolio of energy system expertise:

- Energy efficiency solutions (lighting, HVAC, controls)
- Renewable energy (solar, biomass, geothermal)
- Advanced metering infrastructure (AMI) and smart/micro grids
- Load management and automated demand response (OpenADR)
- Central plant design and optimization
- Biofuels refining and production

Integrating the right combination of supply- and demand-side resources makes it easier to get the energy benefits of Honeywell across all aspects of your facility's life cycle. Our commitment to working collaboratively with you means that we can meet and exceed your organizational goals. Our project management approach offers consistent quality of installation and services, as well as a higher level of accountability. Our comprehensive solutions development approach helps establish a level of service and quality that is difficult to achieve when using a variety of independent vendors.

We offer full service solutions to deliver maximum efficiency and strong financial benefits that come from strategic energy planning.

- **Reduced energy consumption**
Improve energy and water utilization by upgrading and specifying best-in-class lighting, pumps, motors, HVAC equipment and control systems.
- **Enhanced load management**
Leverage the ability to actively control facility energy demand in ways that do not impact occupants or operations.
- **Managed on-site generation**
Balance the capability of producing cost-effective electricity with purchasing inexpensive power from the grid while ensuring thermal loads are met in a cost-effective manner.



Learn More

For more information on how
Honeywell can benefit your
facility and your bottom line,
call **800-345-6770, ext. 750** or visit
HoneywellEnergyEfficiency.com.

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